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	Application Number		10612179	
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	First Named Inventor ROLA		_AND KREUTZER	
(Not for submission under 37 CFR 1.99)	Art Unit		1635	
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	Attorney Docket Number		A2038-706120	

	U.S.PATENTS					
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6271358		2001-08-07	Manoharan et al.	
	2	6166197		2000-12-26	Cook et al.	
	3	6127533		2000-10-03	Cook et al.	
	4	6054299		2000-04-25	Conrad	
	5	5998203		1999-12-07	Matulic-Adamic et al.	
	6	5587361		1996-12-24	Cook et al.	
	7	5521302		1996-05-28	Cook	
	8	5328470		1994-07-12	Nabel et al.	

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	9	5212295		1993-05	5-18	Cook			
	10	4980286		1990-12	2-25	Morgan et al.			
	11	4868116		1989-09)-19	Morgan et al.			
	12	6573046		2003-06	S-03	Kmiec et al.			
	13	5939262		1999-08	3-17	Pasloske et al.			
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	1	20040072779		2004-04	I-15	Kreutzer et al.			
	2	20040001811		2004-01	I-01	Kreutzer et al.			
If you wis	h to ac	⊔ dd additional U.S. Publi	⊥ shed Ap	plication	n citatio	ı n information p	lease click the Ad	⊥ d button	Add
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1	2005/012357	WO	2005-02-10	Milmer et al.	
2	2004/065601	WO	2004-08-05	Philipp et al.	
3	2004/045543	WO	2004-06-03	Dharmacon, Inc	
4	2004/027030	wo	2004-04-01	Isis Pharmaceuticals, Inc.	
5	2004/015107	WO	2004-02-19	Giese et al.	
6	2001/36646	WO	2008-08-27	Zernicka-Goetz et al.	
7	2000/22113	WO	2000-04-20	Skillern et al.	
8	2000/22114	WO	2000-04-20	Conrad	
9	1999/54459	wo	1999-10-28	Thompson et al.	
10	1992/07573	WO	1992-05-14	Rafield et al.	
11	1989/07136	wo	1989-08-10	Wilson et al.	

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	12	1989/05345	WO		1989-06-15	Wilson et al.				
	13	1989/02468	WO		1989-03-23	Mulligan et al.				
	14	9927444.1	GB		1999-11-19	Zernicka-Goetz et al.				
	15	102 35 620.3	DE		2002-08-02				×	
	16	101 00 586	DE		2002-04-11	Ribopharma AG			×	
	17	19618797	DE		1996-10-05	Wolf Bertling			×	
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Examiner Initials*	Cite No		nal, serial, symp	osium,	catalog, etc), o	the article (when appropo date, pages(s), volume-is			T 5	
	1	ARMENTANO ET AL., "Expression of human factor IX in rabbit hepatocytes by retrovirus-mediated gene transfer: Potential for gene therapy of hemophilia B" Proc. Natl. Acad. Sci. USA 87:6141-6145 (1990).								
	2	Auszug aus der online-F	Rolle des EPA.							
	3	BASBAUM ET AL., "Foo cell surface" Curr. Opin.				gulation of extra cellular ma	trix degradati	on at the		

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Art Unit		1635		
Examiner Name	TRAC	Y ANN VIVLEMORE		
Attorney Docket Number		A2038-706120		

4	BECK, "Unknotting the Complexities of Multidrug Resistance: The Involvement of DNA Topoisomerases in Drug Action and Resistance" J. Natl. Cancer Inst. 81:1683-1685 (1989).	
5	BERKNER ET AL., "Development of Adenovirus Vectors for the Expression of Heterologous Genes" BioTechniques 6 (7):616-629 (1998).	
6	BIRKEDAL-HANSEN ET AL., "Matrix Metalloproteinases: A Review" Crit. Rev. Oral Biol. Med. 4:197-250 (1993).	
7	BOYD, "Invasion and metastasis" Cancer Metastasis Rev. 15:77-89 (1996).	
8	BRAASCH ET AL., "Locked nucleic acid (LNA): fine-tuning the recognition of DNA and RNA" Chem. Biol. 8:1-7 (2001).	
9	BRINCKERHOFF ET AL., "Matrix metalloproteinases: a tail of a frog that became a prince" Nature Reviews 3:207-214 (2002).	
10	BUCCHINI ET AL., "Pancreatic Expression of Human Insulin Gene in Transgenic Mice" PNAS USA 83:2511-2515 (1986).	
11	CHAO ET AL., "BCL-2 FAMILY: Regulators of Cell Death" Annu. Rev. Immunol. 16:395-419 (1998).	
12	CHEN ET AL., "Gene therapy for brain tumors: regression of experimental gliomas by adenovirus-mediated gene transfer in vivo" Proc. Natl. Acad. Sci. USA 91:3054-3057 (1994).	
13	CHILDS ET AL., "The MDR Superfamily of Genes and Its Biological Implications" Imp. Adv. Oncol. 21-36 (1994).	
14	CHOWDHURY ET AL., "Long-Term Improvement of Hypercholesterolemia After Ex Vivo Gene Therapy in LDLR-Deficient Rabbits" Science 254:1802-1805 (1991).	

Application Number		10612179		
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Examiner Name	TRAC	CY ANN VIVLEMORE		
Attorney Docket Number		A2038-706120		

15	CIOCA ET AL., "RNA interference is a functional pathway with therapeutic potential in human myeloid leukemia cell lines" Cancer Gene Therapy 10:125-133 (2003).	
16	COLE ET AL., "Overexpression of a Transporter Gene in a Multidrug-Resistant Human Lung Cancer Cell Line" Science 258:1650-1654 (1992).	
17	CONE ET AL., "High-efficiency gene transfer into mammalian cells: Generation of helper-free recombinant retrovirus with broad mammalian host range" Proc. Natl. Acad. Sci. USA 81:6349-6353 (1984).	
18	COOK, "Medicinal chemistry of antisense oligonucleotides - future opportunities" Anti-Cancer Drug Design 6:585-607 (1991).	
19	CORNETTA ET AL., "Safety Issues Related to Retroviral-Mediated Gene Transfer in Humans" Human Gene Therapy 2(1):5-14 (1991).	
20	COUTURE ET AL., "Anti-gene therapy: the use of ribozymes to inhibit gene function: Trends in Genetics," 12:510-515 (1996).	
21	CROOKE ET AL., "Pharmacokinetic Properties of Several Novel Oligonucleotide Analogs in Mice" J. Pharmacol. Exp. Ther. 277:923-937 (1996).	
22	DAI ET AL., "Gene therapy via primary myoblasts: Long-term expression of factor IX protein following transplantation in vivo" Proc. Natl. Acad. Sci. USA 89:10892-10895 (1992).	
23	DANOS ET AL., "Safe and efficient generation of recombinant retroviruses with amphotropic and ecotropic host ranges" Proc. Natl. Acad. Sci. USA 85:6460-6464 (1988).	
24	D'Ari, "Cycle-regulated genes and cell cycle regulation" Bioassays 23:563-565 (2001).	
25	DELGADO ET AL., "The Uses and Properties of PEG-Linked Proteins" Crit. Rev. Therap. Drug Carrier Sys. 9:249-304 (1992).	

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	26	Diagra	Diagramm zur Illustrierung des Gegenstands des angegriffenen Patents.				
	27	Diagra	gramm zur Illustrierung der Offenbarung von D5.				
	28	Diagra	amm zur Illustrierung der Offenbarung von D13.				
	29	DOC	DOCHERTY ET AL., "Nutrient regulation of insulin gene expression" FASEB J. 8:20-27 (1994).				
	30		EDER ET AL., "Monitoring of BCR-ABL expression using real-time RT-PCR in CML after bone marrow or peripheral blood stem cell transplantation" Leukemia 13:1383-1389 (1999).				
	31		EGLITIS ET AL., "Gene Expression in Mice After High Efficiency Retroviral-Mediated Gene Transfer" Science 230:1395-1398 (1985).				
	32	ERIKSSON ET AL., "Establishment and characterization of mouse stain (TLL) that spontaneously develops T-cell lymphomas/leukemia" Exp. Hematol. 27:682-688 (1999).					
	33	FAN ET AL., "Reversal of Multidrug Resistance in Cancer", ed. Kellen, CRC, Boca Raton, FL, pp. 93-125.		pp. 93-125.			
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